

参考文献

- Adey, W.H. (1978) Coral reef morphogenesis, a multidimensional model. *Science*, 202, 831-837.
- Atkinson, M.J., Falter, J.L. and Hearn, C.J. (2001) Nutrient dynamics in the Biosphere 2 coral reef mesocosm. - Water velocity controls NH_4 and PO_4 uptake. *Coral Reefs*, 20, 341-346.
- Babcock, R. and Davies, P. (1991) Effects of sedimentation on settlement of *Acropora millepora*. *Coral Reefs*, 9, 205-208.
- Bell, P.R.F., Greenfield, O.F., Hawker, D. and Connell, D. (1989) The impact of waste discharges on coral reef regions. *Water Science and Technology*, 21(1), 121-130.
- Brown, B.E. and Suharsono (1990) Damage and recovery of coral reefs affected by *El Nino* related seawater warming in the Thousand Islands, Indonesia. *Coral Reefs*, 8, 163-116.
- Callum, M.R., McClean, C.J., Veron, J.E.N., Hawkins, J.P., Allen, G.R., McAllister, D.E., Mittermeier, C.G., Schueler, F.W., Spalding, M., Wells, F., Vynne, C. and Werner, T.B. (2002) Marine biodiversity hotspots and conservation priorities for tropical reefs. *Science*, 295, 1280-1284.
- Chalker, B.E., Barnes, D.J., Dunlap, W.C. and Jokiel, P.L. (1988) Light and reef-building corals. *Interdisciplinary Science Reviews*, 13(3), 222-237.

- Chappell, J. (1980) Coral morphology, diversity and reef growth. *Nature*, 288, 249-252.
- Coles, S.L. and Jokiel, P.L. (1978) Synergistic effects of temperature, salinity and light on the hermatypic coral *Montipora verrucosa*. *Marine Biology*, 49(3), 187-195.
- Colgan, N.W. (1987) Coral reef recovery on Guam (Micronesia) after catastrophic predation by *Acanthaster*. *Ecology*, 68, 1592-1605.
- Connell, J.H. (1978) Diversity in tropical rain forests and coral reefs. *Science*, 199, 1302-1310.
- Connell, J.H. (1997) Disturbance and recovery of coral assemblages. *Coral Reefs*, 16, 101-113.
- Connell, J.H., Hughes, T.P. and Wallance, C.C. (1997) A 30-year study of coral abundance, recruitment, and disturbance at several scales in space and time. *Ecological Monographs*, 67(4), 461-488.
- Coreau, T.F. (1964) Mass expulsion of zooxanthellae from Jamaican reef communities after hurricane flora. *Science*, 145, 383-386.
- Costanza, R., d'Arge, R., de Groot, R.S., Farber, S., Grasso, M., Hannon, B., Limburg, K., Naeem, S., O'Neill, R.V., Pauelo, J., Raslin, R.G., Sutton, P. and van den Belt, M. (1997) The value of the world's ecosystem services and natural capital. *Nature*, 387, 253-260.

Dennison, W.C. and Barnes, D.J. (1988) Effect of water motion on coral photosynthesis and calcification. *Journal of Experimental Marine Biology and Ecology*, 115, 67-77.

De'sth, G. and Moran, P.J. (1998) Factors affecting the behavior of crown-of-thorns starfish (*Acanthaster planci* L.) on the Great Barrier Reef. - Patterns of activity. *Journal of Experimental Marine Biology and Ecology*, 220, 83-106.

Gleason, D.F. and Wellington, M. (1993) Ultraviolet radiation and coral bleaching. *Nature*, 365, 836-838.

合田良實 (1990) 港湾構造物の耐波設計. 鹿島出版会, 333p.

Grigg, R.W. and Maragos, J.E. (1974) Recolonization of hermatypic corals on submerged larva flows in Hawaii. *Ecology*, 55, 387-395.

Gulland, J.A. (1969) *Manual of methods for fish stock assessment*. Food and Agriculture Organization of Rome, 154p.

Harriott, V.J. (1985) Mortality rates of scleractinian corals before and during a mass bleaching event. *Marine Ecology Progress Series*, 21, 81-88.

Harriott, V.J. (1999) Coral growth in subtropical eastern Australia. *Coral Reefs*, 18, 281-291.

Highsmith, R.C. (1982) Reproduction by fragmentation in corals. *Marine Ecology Progress Series*, 7, 207-226.

Hoegh-Guldberg, O. (2000) Global climate change and thermal tolerance of corals. *Galaxea JCRS*, 2, 1-11.

福西謙, 与那覇健次, 森田整, 山本秀一, 高橋由浩 (1998) サンゴ礁と共生する港湾整備計画手法について. *Techno-ocean'98 International symposium, proceedings*, 181-184.

古川恵太, 室善一郎, 細川恭史 (1994) 港湾構造物への生物付着促進のための凸部周辺の流速分布に関する検討. *港研報告* 33(3), 25p.

Hutchings, P.A. (1986) Biological destruction of coral reefs. *Coral Reefs*, 4, 239-252.

石井正樹, 前幸地紀和, 大村誠, 山本秀一, 高橋由浩, 田村圭一 (2001) 平良港におけるサンゴ群集に配慮した環境修復技術. *海岸工学論文集*, 48, 1301-1305.

磯部雅彦 (1998) ミチゲーションの調査分析と沿岸域環境管理の枠組の提案. *海岸工学論文集*, 45, 1236-1240.

岩上淳一, 宮井真一郎, 栗田一昭, 尾崎幸男, 山本秀一, 高橋由浩 (1995) サンゴの人工構造物への着生状況-2. *海岸工学論文集*, 42, 1206-1210.

Jokiel, P.L. (1978) Effects of water motion on reef corals. *Journal of Experimental Marine Biology and Ecology*, 35, 87-97.

環境庁 (1997) 日本の干潟、藻場、サンゴ礁の現況 第3巻 サンゴ礁.財団法人 海中公園センター, 262p.

- Karul, C., Soyupak, S., Cileisiz, A.F., Akbay, N. and Germen, E. (2000) Case studies on the use of neural net works in eutrophication modeling. *Ecological Modelling*, 134, 145-152.
- Kinzie, R.A. III and Hunter, T. (1987) Effect of light quality on photosynthesis of the reef coral *Montipora verrucosa*. *Marine Biology*, 94, 95-109.
- Kobayashi, A. (1984) Regeneration and regrowth of fragmented colonies of the hermatypic corals *Acropora formosa* and *Acropora nasuta*. *Galaxea*, 3, 13-23.
- 小橋川共男, 目崎茂和 (1989) 石垣島白保サンゴの海一残された奇跡のサンゴ礁. 高文研, 142p.
- 工藤君明 (1991) サンゴ礁造園技術. 海洋科学技術センターニュース, 112, 16-23.
- Kuhl, M., Cohen, Y., Dalsgaard, T., Jorgensen, B.B. and Revsbech, N.P. (1995) Microenvironment and photo-synthesis of zooxanthellae in scleractinian corals studied with microsensors for O₂, pH and light. *Marine Ecology Progress Series*, 117, 159-172.
- Lang, J. (1973) Interspecific aggression by scleractinian corals. 2. - Why the race is not only to the swift? *Bulletin of Marine Science*, 23, 260-279.
- 前幸地紀和, 甲斐隆生, 山本秀一 (2002) サンゴ礁の移築方法. 特願 2002-87534.

Massel, S.R. and Done, T.J. (1993) Effects of cyclone waves on massive coral assemblages on Great Barrier Reef. *Coral Reefs*, 12, 153-166.

McAllister, D.E. (1991) What is the status of the world's coral reef fishes? *Sea Wind*, 5, 14-18.

Moberg, F. and Folke, C. (1999) Ecological goods and services of coral reef ecosystems. *Ecological Economics*, 29, 215-233.

森田晋, 田淵郁男, 前原弘海, 進明男, 児玉理彦, 山本秀一 (1992) サンゴの人工構造物への着生状況. *海岸工学論文集*, 39, 1000-1005.

Murakami, K., Asai, T., Nakase, K., Watanuki, A. and Yamamoto, H. (2001) Classification of attached organisms on marine structures with respect to wave and water quality conditions. *Coastal Engineering Journal*, 43(3), 203-219.

灘岡和夫, 波利井佐紀, 池間建晴, Paringit, E., 三井順, 田村仁, 岩尾研二, 鹿熊信一郎 (2002) 沖縄・慶良間列島におけるサンゴ産卵とスリック動態に関する観測. *海岸工学論文集*, 49, 1176-1180.

西平守孝 and Veron, J. (1995) 日本の造礁サンゴ類. 海遊社, 439p.

Odum, H.T. and Odum, E.P. (1955) Tropic structure and productivity of a windward coral reef community on Eniwetok Atoll. *Ecological Monographs*, 25, 291-320.

沖縄県環境保健部 (1989-1996) 公共用水域及び地下水の水質測定結果. 沖縄県.

大久保奈弥, 大森信 (2001) 世界の造礁サンゴの移植レビュー, *Galaxea JCRS*, 3, 31-40.

小笹博昭, 室善一郎, 中瀬浩太, 山本秀一, 綿貫啓 (1994) 生物にやさしい港湾構造物の研究－波浪条件および港湾構造物形式よりみた付着生物. *海岸工学論文集*, 41, 1016-1020.

Peirano, A., Morri, C. and Bianchi, C.N. (1999) Skeleton growth and density pattern of the temperate, zooxanthellate scleractinian *Cladocora caespitosa* from the Ligurian Sea (NW Mediterranean). *Marine Ecology Progress Series*, 185, 195-201.

Recknagel, F., French, M., Harkonen, P. and Yabunaka, K. (1997) Artificial neural network approach for modeling and prediction of algal blooms, *Ecological Modelling*. 96, 11-28.

Rumelhart, D.E., McClelland, J.L. and PDP Research Group (甘利俊一監訳) (1989) PDP モデル－認知科学とニューロン回路網の探索, *産業図書*, 529p.

Smith, S.V. (1978) Coral-reef area and the contribution of reefs to processes and resources of the world's ocean. *Nature*, 273, 225-226.

Spalding, M.D. and Grenfell, A.M. (1997) New estimates of global and regional coral reef areas. *Coral reefs*, 16, 225-230.

Stephenson, T.A. and Stephenson, A. (1933) Growth and asexual reproduction in corals. *Science Reports, Great Barrier Reef Expedition*, 3, 167-217.

社団法人日本港湾協会 (1999) 港湾施設の技術上の基準・同解説(上巻).
1181p.

谷本正和, 綿貫啓, 廣瀬紀一 (1994) 多孔質コンクリートブロックに付着した
生物. 平成6年度日本水産工学学術講演会論文集, 81-82.

Te, F.T. (1992) Response to higher sediment load by *Pocillopora*
damicornis planulae. Coral Reefs, 11, 131-134.

寺脇利信 (1988) 海中林造成技術の基礎的検討第2報—カジメ幼体の入
植と人工基盤の表面形状. 電力中央研究所報告, 26p.

Thomas, F.I.M. and Atkinson, M.J. (1997) Ammonium uptake by coral
reefs. - Effects of water velocity and surface roughness on mass
transfer. Limnology and Oceanography, 42, 81-88.

Tomascik, T. (1991) Settlement patterns of Caribbean scleractinian
corals on artificial substrata along eutrophication gradient, Barbados,
West Indies. Marine Ecology Progress Series, 77, 261-269.

土屋誠 (1996) サンゴ礁の生態系機能とその保全. 海洋と生物, 18(3),
183-188.

土屋誠 (1999) サンゴ礁からの警告—最大規模の白化現象は何を意味する
か. Galaxea JCRS, 1, 27-29.

運輸省 (1990-1999) 全国港湾海岸波浪年報. 運輸省港湾局.

Veron, J. (2000) Corals of the world. Volume 1. Australian Institute of Marine Science and CRR Qld Pty Ltd., 463p.

綿貫啓, 山本秀一, 新井章吾 (1987) ツルアラメ幼体の入植に及ぼす基質表面形状の影響. 水産増殖, 35(2), 69-75.

Watanuki, A. and Yamamoto, H. (1990) Settlement of seaweeds on coastal structures. *Hydrobiologia*, 204/205, 275-280.

Wei, B., Sugiura, N. and Maekawa, T. (2001) Use of artificial neural network in the prediction of algal blooms. *Water Research*, 35(8), 2002-2028.

Yamaguchi, M. (1983) Growth data analysis in the reef-building coral *Pocillopora Damicornis* (Linnaeus). *Galaxea*, 2, 21-27.

Yamamoto, H., Sugiura, N. and Maekawa, T. (2002) Coral growth processes using multiple regression analysis and neural network model. *Eco-Engineering*, 14(3), 3-11.

山本秀一, 高橋由浩, 住田公資, 林輝幸, 杉浦則夫, 前川孝昭 (2002) 人工構造物におけるサンゴ群集成長過程の解析. 海岸工学論文集, 49, 1186-1190.

山下孝男, 西平守孝, 土屋義人, スワンディー (1996) サンゴの移植によるバリ島サヌール海岸の保全について. 海岸工学論文集, 43, 1281-1285.

山里清 (1991) サンゴの生物学. 東京大学出版会, 150p.

吉見昌弘，与那覇健次，片岡真二，山本秀一，高橋由浩，田村圭一
(1998) サンゴの人工構造物への着生状況-3. 海岸工学論文集，45，
1111-1115.

財団法人港湾空間高度化センター (1999) サンゴ礁と共生する港湾整備マ
ニュアル案. 財団法人港湾空間高度化センター港湾・海城環境研究所，
99p.

財団法人日本気象協会 (1999) 理科年表 CD-ROM 版. 丸善書店刊.